

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A disk of a disk rotor for a gas turbine comprising:
a central portion ~~(22)~~, having a central axis pass-through hole, a first collar
situated at a first end and a second collar situated at a second end of the central
portion;
an intermediate portion ~~(24)~~, disposed around the central portion;
an outer portion ~~(28)~~, disposed around the intermediate portion, the outer portion
having a series of axial pass-through holes (27) for configured to receive a series of tie
rods and having a series of slots (50) for housing configured to house a corresponding
series of vanes, said central portion (22) comprises a central axial pass-through hole
(23), a first collar (30) situated at a first end and a second collar (40) situated at a
second end of the central portion (22), characterized in that wherein
the series of holes (27) is positioned in the outer portion (28) of the disk so as to
obtain high dynamic characteristics of the rotor and at the same time a sufficient useful
life thereof, and
each slot has a reference point for placing a corresponding vane, an angle
between the reference point of a slot and a central point of an adjacent hole of the

series of holes is between 2 and 10 sexagesimal degrees, and the reference point is defined by an intersection of (i) an axis of the slot in a middle side section of the disk with (ii) an extension of a side surface of the outer portion, the axis of the slot being radial from an axial direction of the disk.

2. (Currently Amended) The disk of a disk rotor for a gas turbine according to claim 1, ~~characterized in that~~wherein said series of holes ~~(27)~~ is situated on a base surface ~~(31)~~ of the outer portion ~~(28)~~.

3. (Currently Amended) The disk of a disk rotor for a gas turbine according to claim 2, ~~characterized in that~~wherein the holes of said series of holes ~~(27)~~ are positioned at an equal distance from each other along a circumference ~~(61)~~ lying on the base surface ~~(31)~~, said circumference ~~(61)~~ is being coaxial with the ~~axis~~axial direction of the disk.

4. (Currently Amended) The disk of a disk rotor for a gas turbine according to claim 1, ~~characterized in that~~wherein said first collar ~~(30)~~ comprises a bevel ~~(38)~~ and a relief ~~(36)~~ and ~~in that~~ said second collar ~~(40)~~ comprises a bevel ~~(48)~~ and a relief ~~(46)~~.

5. (Currently Amended) The disk of a disk rotor for a gas turbine according to claim 1, ~~characterized in that~~wherein the disk ~~(20)~~ has a total number of holes ~~(27)~~ of the series of holes which is equal to the total number of slots ~~(50)~~ of the series of slots ~~(50)~~

for the series of vanes.

6. (Cancelled).

7. (Currently Amended) The disk of a disk rotor for a gas turbine according to claim ~~61~~, characterized in that wherein said angle ~~(83)~~ ranges from 4 to 8 sexagesimal degrees.

8. (Currently Amended) The disk of a disk rotor for a gas turbine according to claim ~~13~~, characterized in that wherein the diameter of the circumference ~~(61)~~ is close to the diameter of the disk ~~(20)~~.

9. (Currently Amended) A disk rotor for a compressor comprising a series of disks ~~(20)~~ according to claim 1 and also comprising a series of tie rods, and a series of vanes.

10. (Cancelled).

11. (New) The disk of a disk rotor for a gas turbine according to claim 1, wherein each slot of the series of the slots is tilted both axially and vertically relative to axial and vertical directions of the disk.

12. (New) The disk of a disk rotor for a gas turbine according to claim 1, further comprising:

the series of vanes, wherein a center of each vane is placed to coincide with the reference point of a corresponding slot.

13. (New) The disk of a disk rotor for a gas turbine according to claim 1, wherein each vane extends along an axis within a corresponding slot that is different from the axial direction.

14. (New) A disk of a disk rotor comprising:

a central portion having a central axis pass-through hole;

an intermediate portion disposed around the central portion;

an outer portion disposed around the intermediate portion, the outer portion having a series of axial pass-through holes and a series of slots in a side surface of the outer portion, wherein

each slot has a reference point for placing a corresponding vane, an angle between the reference point of a slot and a central point of an adjacent hole of the series of holes is between 2 and 10 sexagesimal degrees, and the reference point is defined by an intersection of an axis of the slot in a middle side section of the disk with an extension of the side surface of the outer portion, the axis of the slot being radial from an axial direction of the disk.

15. (New) The disk of a disk rotor according to claim 14, wherein each slot of the series of the slots is tilted both axially and vertically relative to axial and vertical directions of the disk.
16. (New) The disk of a disk rotor according to claim 14, further comprising:
a series of vanes configured to be attached to the series of slots.
17. (New) The disk of a disk rotor according to claim 16, wherein a center of each vane is placed to coincide with the reference point of each slot.
18. (New) The disk of a disk rotor according to claim 14, wherein the central portion further comprises:
a central axis pass-through hole;
a first collar situated at a first end of the central portion; and
a second collar situated at a second end of the central portion.
19. (New) The disk of a disk rotor according to claim 18, wherein a diameter of the first collar is smaller than a diameter of the second collar.

20. (New) The disk of a disk rotor according to claim 18, wherein the first collar fits inside the second collar.

21. (New) The disk of a disk rotor according to claim 14, wherein the disk is part of a gas turbine.

22. (New) The disk of a disk rotor according to claim 14, further comprising:
a series of vanes, wherein each vane extends along an axis within a
corresponding slot that is different from the axial direction.